

LUMINAIRE PHOTOMETRIC TEST REPORT

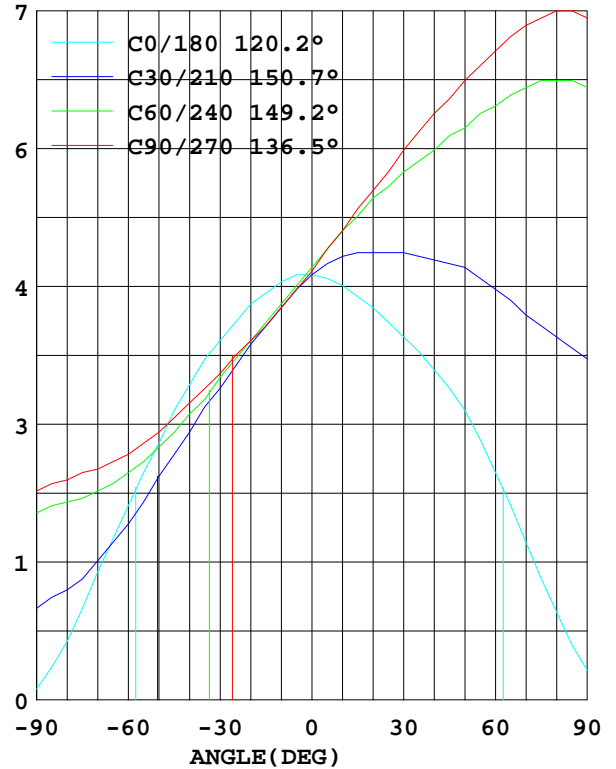
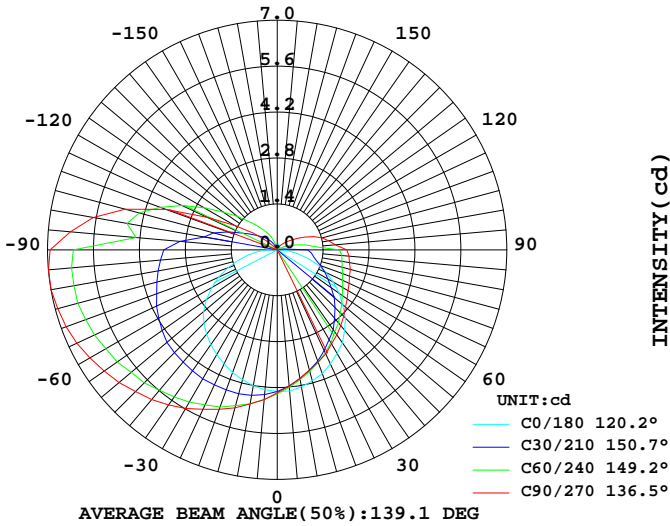
Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	6.995	S/MH(C0/180)	1.26
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.15
NOMINAL POWER(W)	6	TOTAL FLUX(lm)	27.872	Voltage(V)	23.98
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	4.3	Current(A)	0.268
NOMINAL FLUX(lm)	27.9	η up(%)	20.8	Power(W)	6.450
LAMPS QUANTITY	1	η down(%)	79.2	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	12.3	EEL	1.752

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

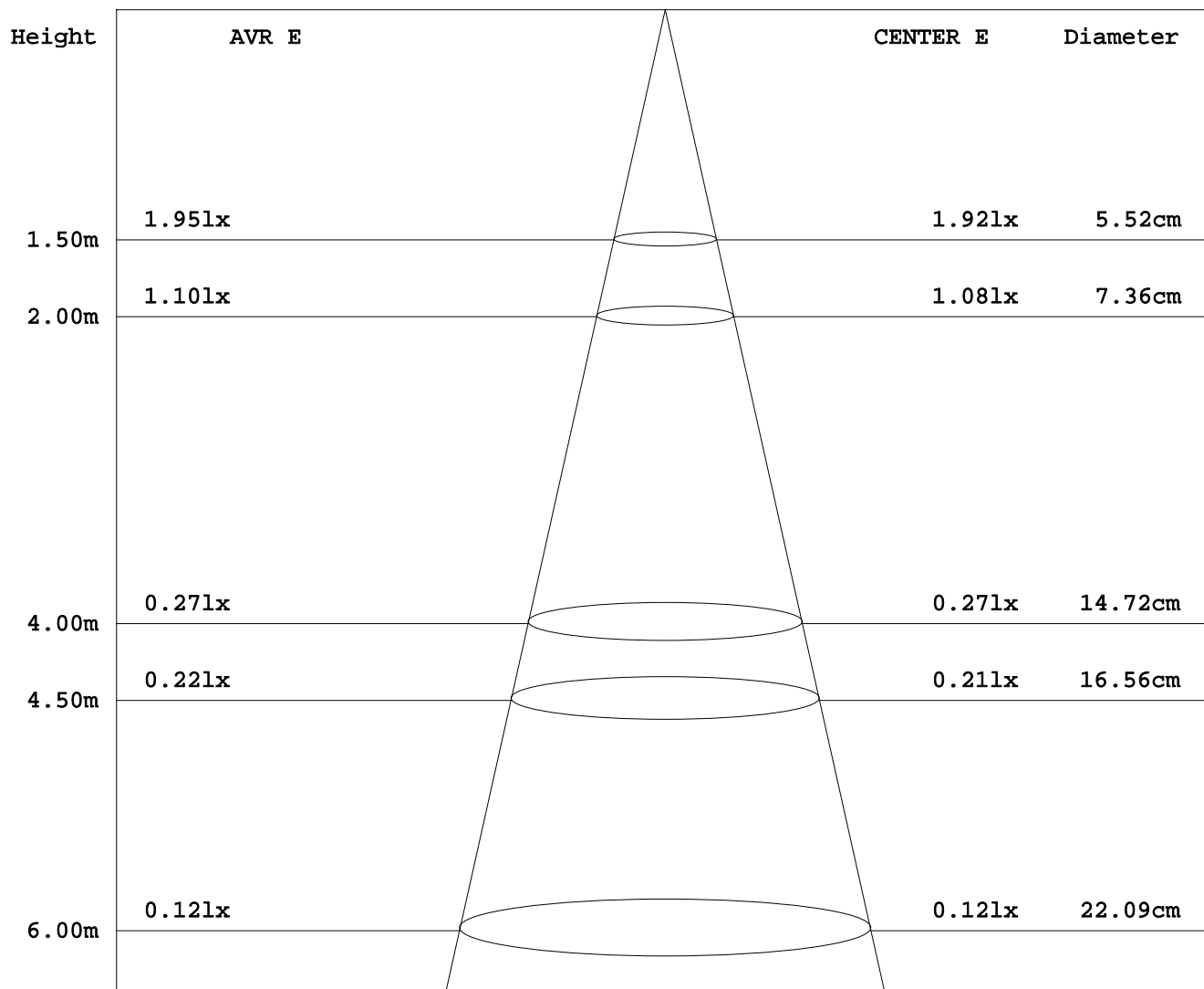
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
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AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Angle: 2.1deg

Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 6.100 m
 Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	
SPECIFICATION:		DIMENSION:	
CCT(K): 0		WEIGHT:	
		SERIAL No.:	

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	4.241	4.000	3.981	4.186	4.204	4.632	4.762	4.669	0- 10	0.417	0.417
20.0	4.018	3.627	3.646	3.832	3.981	4.818	5.172	4.800	10- 20	1.217	1.634
30.0	3.646	3.218	3.311	3.460	3.683	4.948	5.581	4.837	20- 30	1.929	3.563
40.0	3.200	2.809	3.014	3.051	3.348	5.023	5.953	4.855	30- 40	2.515	6.079
50.0	2.604	2.418	2.716	2.641	2.939	5.097	6.288	4.818	40- 50	2.955	9.034
60.0	1.972	2.046	2.493	2.232	2.307	5.097	6.586	4.781	50- 60	3.222	12.25
70.0	1.302	1.767	2.344	1.860	1.600	5.060	6.846	4.707	60- 70	3.331	15.58
80.0	0.595	1.562	2.232	1.562	0.893	4.986	6.995	4.632	70- 80	3.305	18.89
90.0	0.112	1.413	2.120	1.413	0.298	4.837	6.921	4.409	80- 90	3.178	22.07
100.0	0	0.540	1.600	0.893	0	3.460	5.693	2.697	90-100	2.393	24.46
110.0	0	0.205	1.190	0.744	0	2.697	3.609	1.079	100-110	1.633	26.10
120.0	0.037	0.056	0.707	0.670	0	1.767	1.488	0.298	110-120	0.898	26.99
130.0	0.074	0	0.409	0.577	0	1.116	0.447	0.037	120-130	0.444	27.44
140.0	0.112	0	0.223	0.465	0	0.688	0.074	0	130-140	0.226	27.66
150.0	0.149	0	0.112	0.391	0	0.391	0.037	0	140-150	0.119	27.78
160.0	0.149	0	0.037	0.335	0	0.112	0	0	150-160	0.057	27.84
170.0	0.186	0.019	0	0.260	0	0.019	0	0	160-170	0.021	27.86
180.0	0.112	0.056	0	0.130	0.112	0.074	0	0.149	170-180	0.007	27.87
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

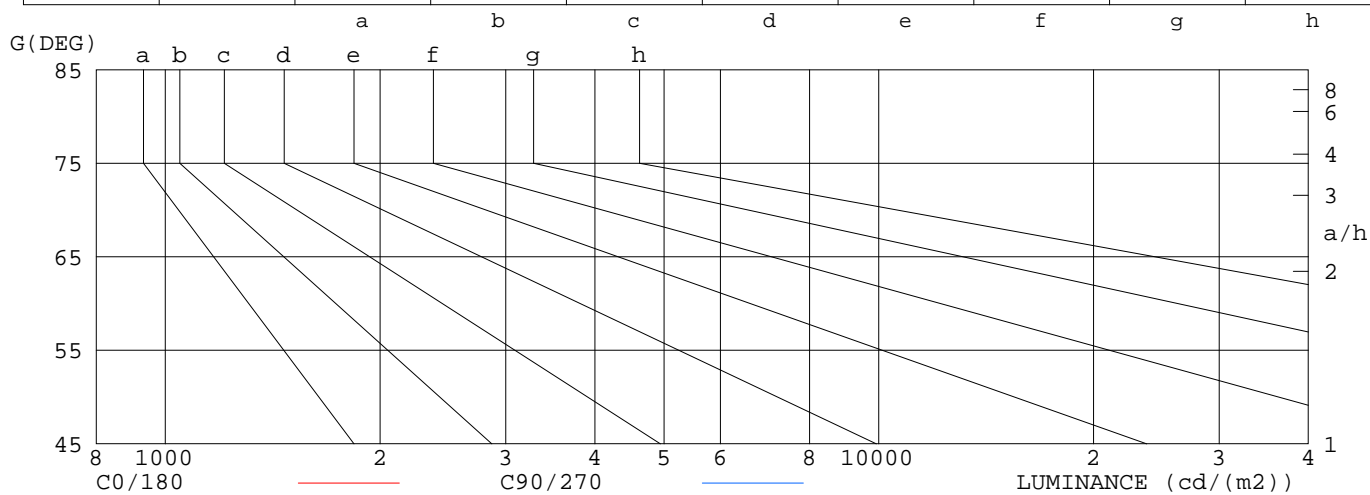
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	
SPECIFICATION:		SERIAL No.:	
CCT(K): 0		DIMENSION:	

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
1.15	A								
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	38	252
80	34	129
75	36	89
70	38	69
65	39	57
60	39	50
55	40	45
50	41	42
45	42	41

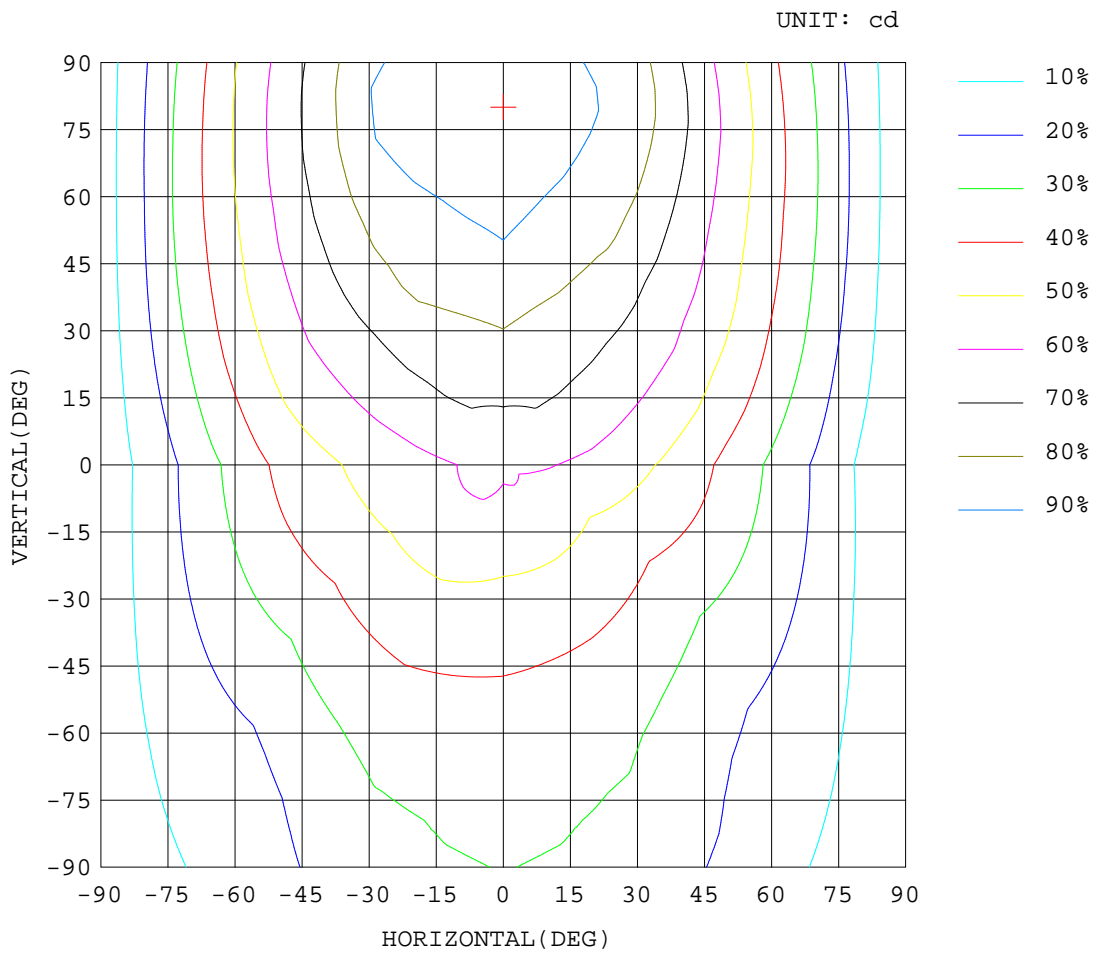
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 Temperature: 25.3 DEG
 Operators:
 Test Date: 06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
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 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



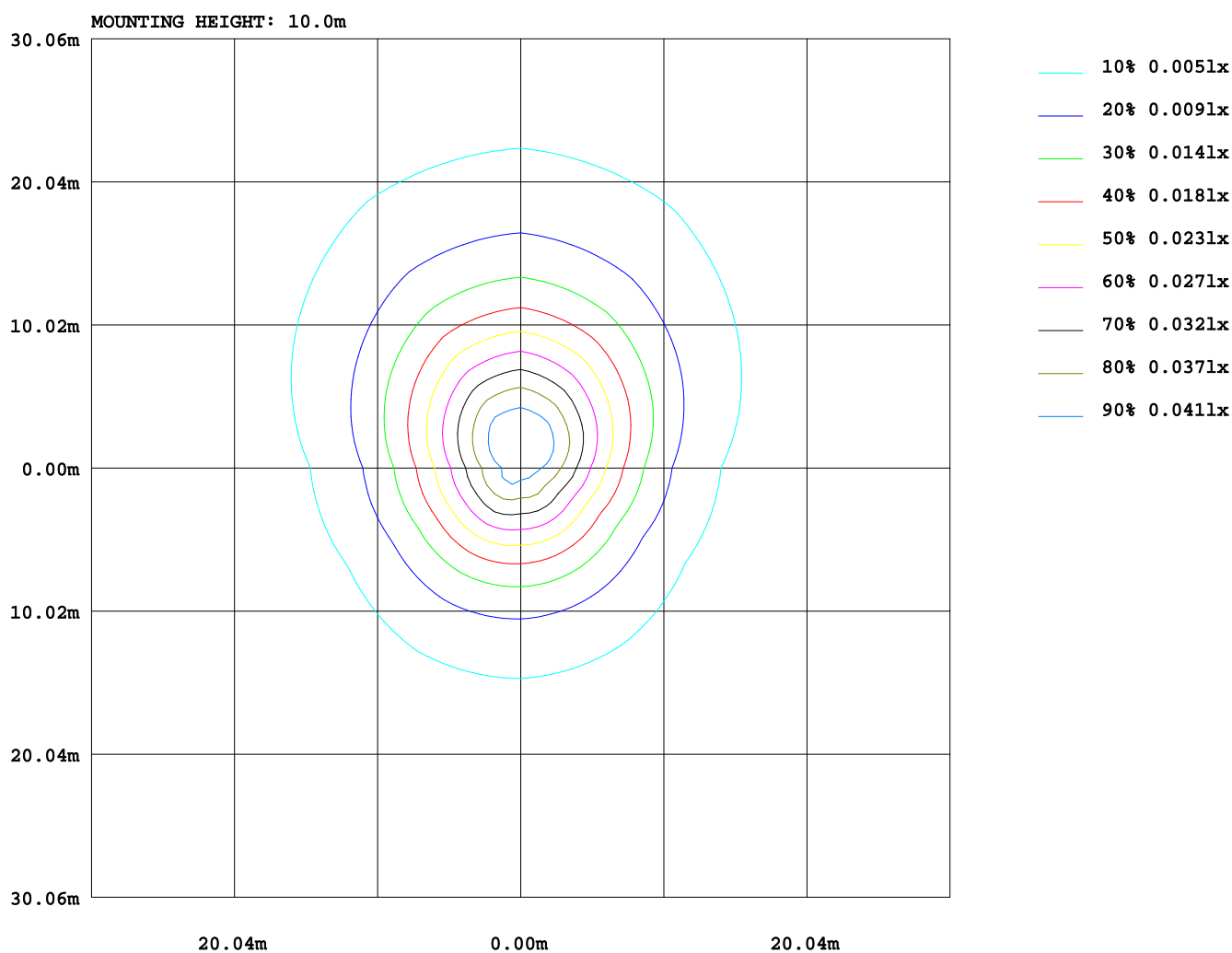
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.02	0.04	0.07	0.11	0.14	0.18	0.19	0.21	0.21	0.19	0.17	0.14	0.10	0.06	0.03	0.01	0.00	1.86	1.75
80	0.00	0.02	0.04	0.07	0.11	0.14	0.18	0.19	0.21	0.20	0.19	0.17	0.14	0.10	0.06	0.03	0.01	0.00	1.86	1.75
70	0.00	0.02	0.04	0.07	0.10	0.14	0.17	0.19	0.20	0.20	0.18	0.16	0.13	0.10	0.06	0.03	0.01	0.00	1.81	1.71
60	0.00	0.02	0.04	0.07	0.10	0.13	0.16	0.18	0.19	0.19	0.18	0.16	0.13	0.09	0.06	0.03	0.01	0.00	1.75	1.64
50	0.00	0.02	0.04	0.07	0.10	0.13	0.16	0.17	0.18	0.18	0.17	0.15	0.12	0.09	0.06	0.03	0.01	0.00	1.67	1.56
40	0.00	0.01	0.04	0.06	0.09	0.12	0.15	0.16	0.17	0.17	0.16	0.14	0.11	0.09	0.06	0.03	0.01	0.00	1.58	1.48
30	0.00	0.01	0.03	0.06	0.09	0.11	0.13	0.15	0.16	0.16	0.15	0.13	0.11	0.08	0.05	0.03	0.01	0.00	1.48	1.39
	0.00	0.01	0.03	0.05	0.08	0.10	0.12	0.14	0.15	0.15	0.14	0.12	0.10	0.07	0.05	0.03	0.01	0.00	1.37	1.29
	0.00	0.01	0.03	0.05	0.07	0.09	0.11	0.13	0.14	0.14	0.13	0.11	0.09	0.07	0.04	0.02	0.01	0.00	1.24	1.17
	0.00	0.01	0.03	0.05	0.07	0.09	0.10	0.12	0.13	0.12	0.11	0.10	0.08	0.06	0.04	0.02	0.01	0.00	1.13	1.07
	0.00	0.01	0.02	0.04	0.06	0.08	0.10	0.11	0.12	0.11	0.11	0.09	0.07	0.06	0.04	0.02	0.01	0.00	1.05	0.99
-30	0.00	0.01	0.02	0.04	0.06	0.07	0.09	0.10	0.11	0.10	0.10	0.08	0.07	0.05	0.03	0.02	0.01	0.00	0.96	0.90
-40	0.00	0.01	0.02	0.03	0.05	0.07	0.08	0.09	0.10	0.09	0.09	0.08	0.06	0.04	0.03	0.02	0.01	0.00	0.87	0.82
-50	0.00	0.01	0.02	0.03	0.04	0.06	0.08	0.08	0.09	0.09	0.08	0.07	0.06	0.04	0.03	0.02	0.01	0.00	0.79	0.74
-60	0.00	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.08	0.08	0.07	0.06	0.05	0.04	0.02	0.01	0.01	0.00	0.72	0.67
-70	0.00	0.01	0.01	0.02	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.02	0.01	0.01	0.00	0.66	0.62
-80	0.00	0.01	0.01	0.02	0.03	0.05	0.06	0.06	0.07	0.07	0.06	0.06	0.05	0.03	0.02	0.01	0.01	0.00	0.62	0.58
-90	0.00	0.01	0.01	0.02	0.03	0.04	0.06	0.06	0.07	0.07	0.06	0.06	0.04	0.03	0.02	0.01	0.00	0.00	0.59	0.55
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)				20	30	40	50	60	70	80	90
Φ t	0.04	0.20	0.49	0.85	1.26	1.68	2.05	2.29	2.43	2.40	2.23	1.96	1.59	1.17	0.77	0.42	0.16	0.03	28	
Φ a	0.00	0.00	0.00	0.85	1.26	1.68	2.05	2.29	2.43	2.40	2.23	1.96	1.59	1.17	0.77	0.00	0.00	0.00		12

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

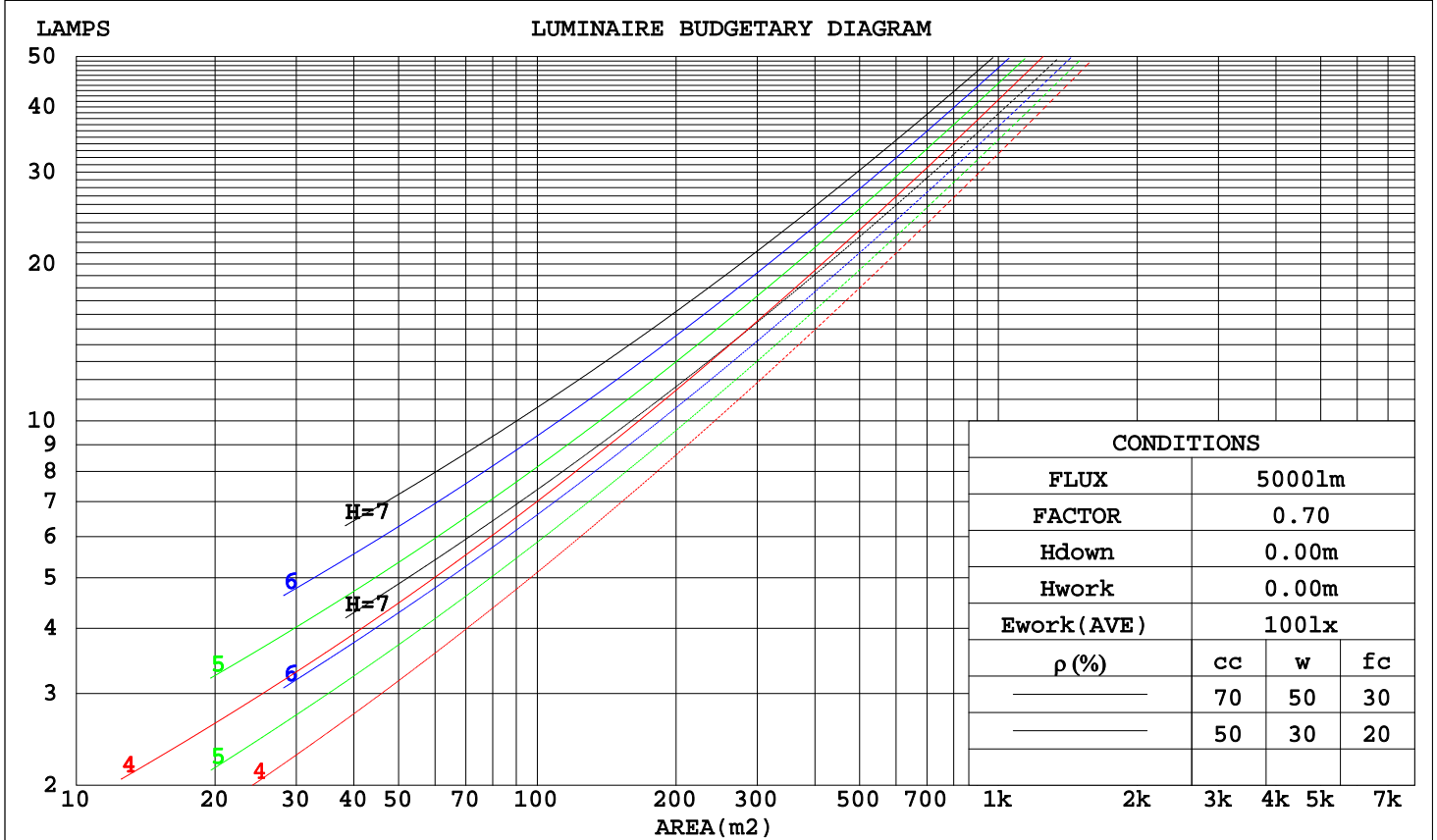
Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME:								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 0				DIMENSION:				SERIAL No.:			

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.14	1.14	1.14	1.09	1.09	1.09	.00	.00	.00	.91	.91	.91	.83	.83	.83	.79
1.0	.92	.86	.80	.88	.82	.77	.79	.75	.71	.72	.68	.65	.65	.62	.59	.55
2.0	.78	.69	.62	.74	.66	.59	.67	.60	.55	.60	.55	.50	.54	.50	.46	.42
3.0	.67	.57	.49	.63	.55	.47	.57	.50	.44	.52	.46	.40	.46	.41	.37	.34
4.0	.58	.48	.40	.55	.46	.39	.50	.42	.36	.45	.39	.33	.41	.35	.31	.28
5.0	.51	.41	.34	.49	.40	.33	.44	.37	.30	.40	.33	.28	.36	.31	.26	.23
6.0	.46	.36	.29	.44	.35	.28	.40	.32	.26	.36	.29	.24	.33	.27	.22	.20
7.0	.41	.32	.25	.39	.31	.24	.36	.28	.23	.33	.26	.21	.30	.24	.20	.17
8.0	.37	.28	.22	.36	.27	.21	.33	.25	.20	.30	.23	.19	.27	.21	.17	.15
9.0	.34	.25	.20	.33	.25	.19	.30	.23	.18	.27	.21	.17	.25	.19	.15	.13
10.0	.31	.23	.18	.30	.22	.17	.28	.21	.16	.25	.19	.15	.23	.18	.14	.12



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

WEC AND CCEC

Report number:

MANUFACTURER:															
Address:															
NAME:								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 0				DIMENSION:				SERIAL No.:			

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.441	.251	.080	.428	.244	.077	.402	.231	.074	.378	.218	.070	.357	.207	.067	
2.0	.367	.201	.062	.355	.195	.060	.331	.184	.057	.310	.174	.054	.290	.164	.052	
3.0	.319	.170	.051	.308	.165	.050	.287	.155	.047	.267	.146	.045	.249	.138	.043	
4.0	.283	.147	.043	.273	.143	.042	.254	.135	.040	.236	.127	.038	.219	.119	.036	
5.0	.255	.130	.038	.245	.126	.037	.228	.119	.035	.212	.112	.033	.197	.105	.032	
6.0	.232	.116	.033	.223	.113	.032	.207	.106	.031	.192	.100	.029	.178	.094	.028	
7.0	.212	.105	.030	.205	.102	.029	.190	.096	.028	.176	.090	.026	.164	.085	.025	
8.0	.196	.096	.027	.189	.093	.026	.176	.088	.025	.163	.083	.024	.151	.078	.023	
9.0	.182	.088	.025	.175	.086	.024	.163	.081	.023	.152	.076	.022	.141	.071	.021	
10.0	.170	.081	.023	.164	.079	.022	.152	.075	.021	.142	.070	.020	.131	.066	.019	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.349	.315	.284	.299	.270	.244	.204	.186	.169	.118	.108	.098	.038	.035	.032	
2.0	.343	.292	.250	.294	.252	.216	.201	.174	.151	.116	.101	.088	.037	.033	.029	
3.0	.336	.276	.229	.288	.238	.199	.198	.166	.139	.114	.097	.082	.037	.031	.027	
4.0	.328	.264	.216	.281	.228	.187	.193	.159	.132	.112	.093	.078	.036	.030	.026	
5.0	.320	.255	.207	.275	.220	.180	.189	.154	.127	.110	.090	.075	.035	.029	.025	
6.0	.312	.247	.200	.268	.214	.174	.185	.150	.123	.107	.088	.073	.035	.029	.024	
7.0	.304	.240	.195	.262	.208	.170	.181	.146	.121	.105	.086	.072	.034	.028	.024	
8.0	.297	.235	.192	.256	.204	.167	.177	.143	.119	.103	.084	.071	.033	.028	.023	
9.0	.291	.230	.189	.251	.200	.165	.174	.140	.117	.101	.083	.070	.033	.027	.023	
10.0	.285	.226	.187	.246	.196	.163	.170	.138	.116	.099	.082	.069	.032	.027	.023	

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 Operators:
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Test Set: 7.0deg/s C-Gamma (TYPE C)
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 Remarks:

UGR Table

Report number:

MANUFACTURER:												
Address:												
NAME:					TYPE:			WEIGHT:				
SPECIFICATION:		CCT(K): 0			DIMENSION:			SERIAL No.:				
ceiling/cavity		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise					
x = 2H y = 2H		-1.8	-0.4	-1.3	0.1	0.8	-0.6	0.8	-0.0	1.4	2.0	
	3H	-0.0	1.3	0.6	1.9	2.6	2.3	3.6	2.9	4.2	4.9	
	4H	0.7	2.0	1.3	2.6	3.3	4.0	5.3	4.6	5.9	6.6	
	6H	1.4	2.5	2.0	3.2	3.9	5.9	7.1	6.6	7.7	8.5	
	8H	1.6	2.8	2.2	3.4	4.1	7.0	8.2	7.7	8.8	9.6	
	12H	1.8	2.9	2.5	3.6	4.3	8.3	9.4	9.0	10.1	10.8	
	4H	2H	-1.0	0.3	-0.4	0.9	1.6	0.0	1.3	0.6	1.9	2.6
		3H	1.0	2.1	1.6	2.8	3.5	3.2	4.3	3.8	4.9	5.7
		4H	1.9	3.0	2.6	3.6	4.4	5.1	6.1	5.7	6.8	7.5
		6H	2.8	3.7	3.5	4.4	5.2	7.2	8.1	7.9	8.8	9.6
		8H	3.2	4.1	3.9	4.8	5.6	8.4	9.3	9.1	10.0	10.8
		12H	3.6	4.4	4.3	5.1	5.9	9.9	10.7	10.6	11.4	12.3
	8H	4H	2.9	3.8	3.6	4.5	5.3	5.4	6.3	6.1	7.0	7.8
		6H	4.2	4.9	4.9	5.7	6.5	8.0	8.7	8.7	9.4	10.3
		8H	4.8	5.5	5.5	6.2	7.1	9.4	10.1	10.2	10.8	11.7
		12H	5.5	6.0	6.2	6.8	7.7	11.2	11.8	11.9	12.5	13.4
	12H	4H	3.4	4.2	4.1	4.9	5.7	5.5	6.3	6.2	7.0	7.8
		6H	4.8	5.5	5.6	6.3	7.1	8.1	8.8	8.8	9.5	10.4
		8H	5.6	6.2	6.4	7.0	7.9	9.7	10.3	10.5	11.1	12.0
Variations with the observer position at spacings:												
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H		+ 0.1 / - 0.2					+ 0.2 / - 0.3					
2.0H		+ 0.2 / - 0.3					+ 0.3 / - 0.4					

CIE Pub.117 Corrected 27.87 lm Total Lamp Luminous Flux. (8log(F/F0) = -12.4)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	44	31	23	43	30	23	41	29	23	16
0.80	52	39	30	51	38	30	48	36	29	21
1.00	60	46	37	58	45	36	54	45	35	26
1.25	67	53	43	64	51	43	60	49	41	31
1.50	72	58	49	69	57	48	64	53	46	35
2.00	79	67	57	76	65	56	70	61	53	41
2.50	84	72	63	81	70	62	74	65	58	45
3.00	88	77	69	84	75	67	77	69	63	48
4.00	93	84	76	89	81	74	81	75	69	53
5.00	97	88	81	92	85	79	84	78	73	57
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

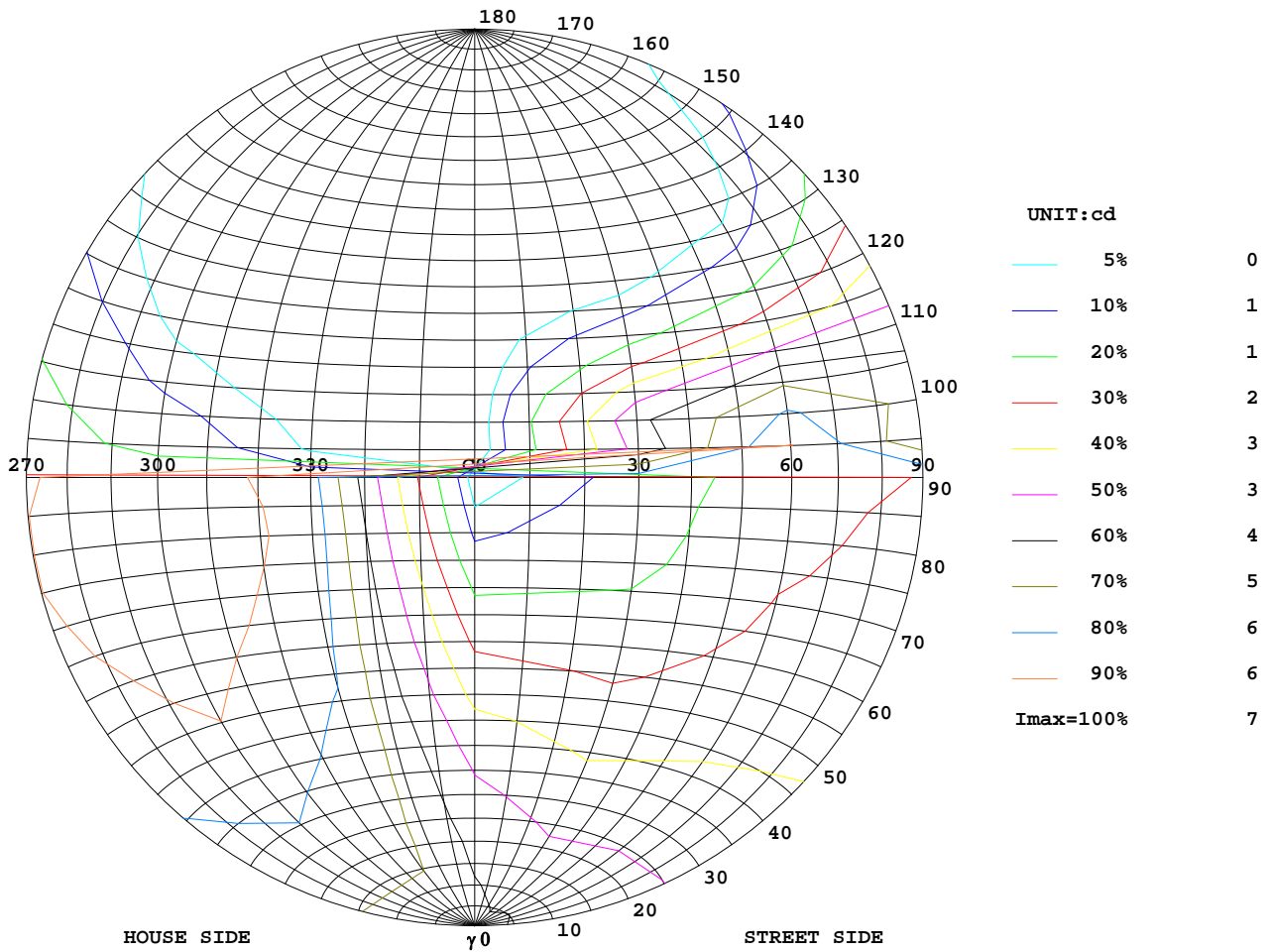
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 06-27-2025

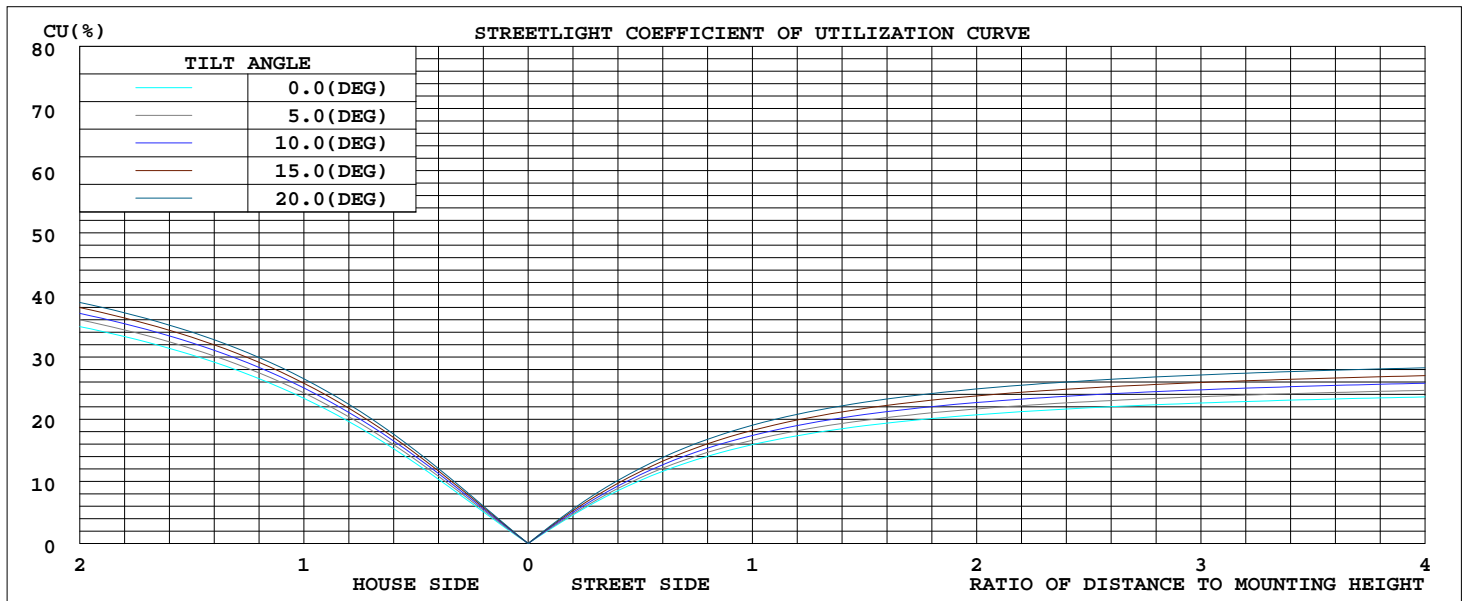
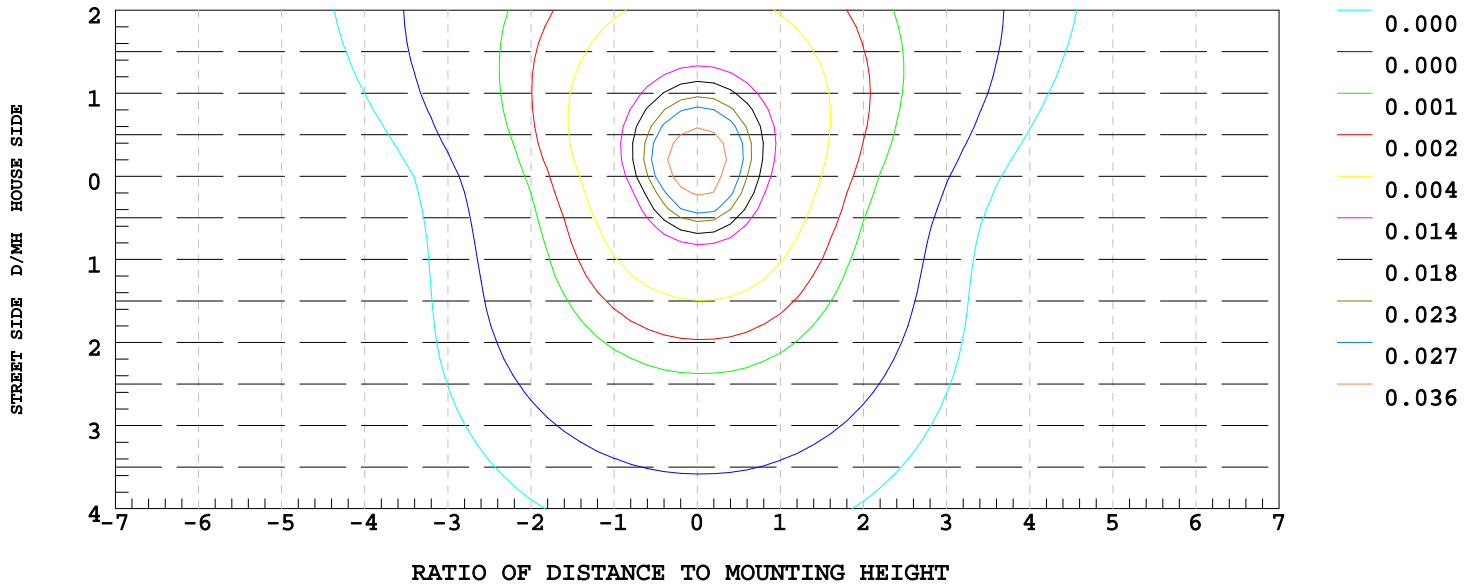
Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 6.100 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 0.04 lx



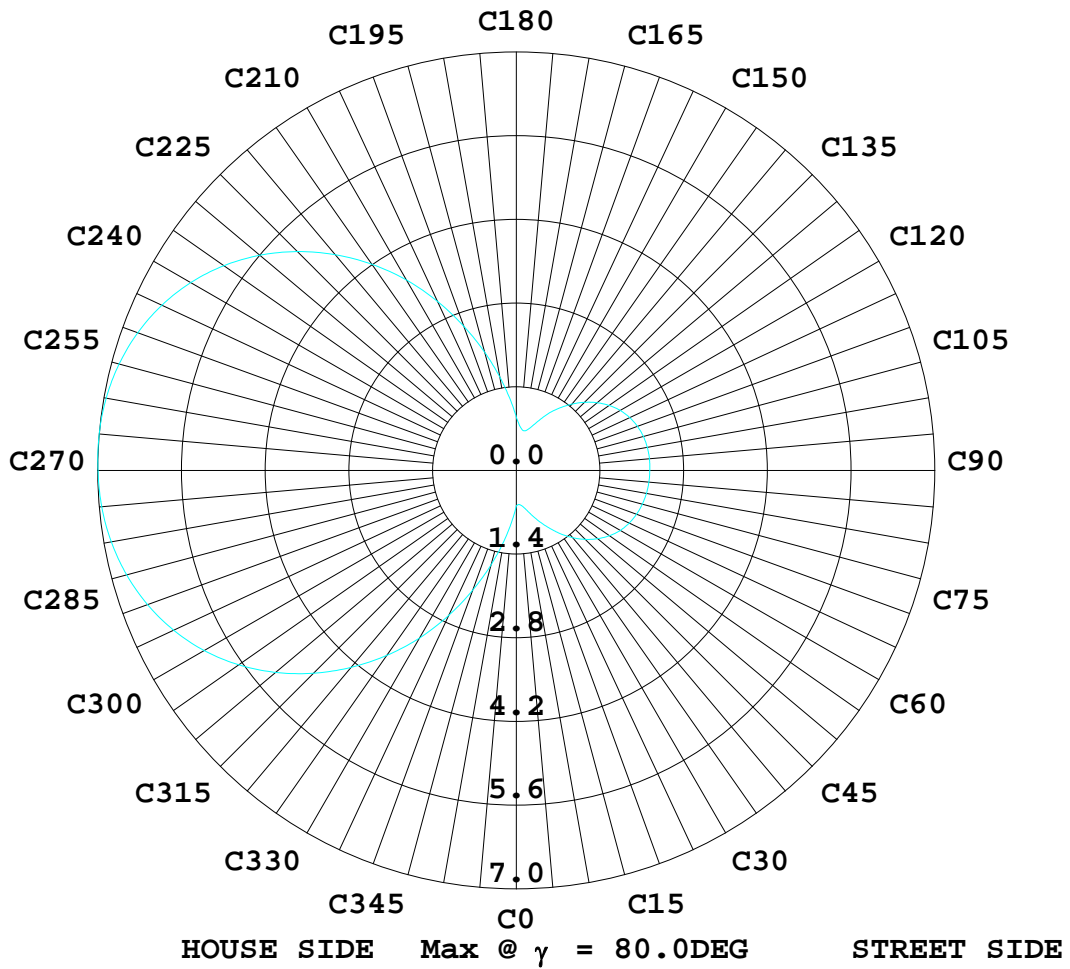
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 6.100 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-27-2025

Test Set: 7.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.100 m
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	4.31	4.31	4.39	4.35	4.50	4.46	4.31	4.31	4.39	4.35	4.50	4.46
5.0	4.31	4.16	4.20	4.16	4.31	4.35	4.27	4.42	4.57	4.57	4.65	4.50
10.0	4.24	3.98	4.01	3.98	4.16	4.20	4.20	4.50	4.76	4.76	4.76	4.57
15.0	4.13	3.79	3.83	3.79	3.98	4.05	4.09	4.53	4.91	4.98	4.91	4.57
20.0	4.01	3.60	3.64	3.64	3.83	3.83	3.98	4.53	5.09	5.17	5.02	4.57
25.0	3.83	3.38	3.46	3.49	3.64	3.64	3.83	4.53	5.20	5.35	5.09	4.53
30.0	3.64	3.16	3.27	3.31	3.46	3.46	3.68	4.53	5.35	5.58	5.20	4.46
35.0	3.46	2.97	3.05	3.16	3.27	3.23	3.53	4.50	5.46	5.76	5.28	4.39
40.0	3.20	2.71	2.90	3.01	3.08	3.01	3.34	4.46	5.58	5.95	5.39	4.31
45.0	2.93	2.49	2.71	2.86	2.93	2.79	3.16	4.42	5.73	6.10	5.46	4.24
50.0	2.60	2.26	2.56	2.71	2.75	2.53	2.93	4.39	5.80	6.28	5.54	4.09
55.0	2.30	2.00	2.41	2.60	2.60	2.26	2.64	4.27	5.95	6.43	5.65	3.98
60.0	1.97	1.78	2.30	2.49	2.45	2.00	2.30	4.16	6.02	6.58	5.73	3.83
65.0	1.63	1.60	2.19	2.41	2.30	1.74	1.97	4.05	6.13	6.73	5.84	3.64
70.0	1.30	1.41	2.12	2.34	2.19	1.52	1.60	3.90	6.21	6.84	5.91	3.49
75.0	0.93	1.22	2.04	2.30	2.08	1.30	1.22	3.79	6.28	6.92	5.99	3.34
80.0	0.60	1.11	2.00	2.23	2.00	1.11	0.89	3.68	6.28	6.99	6.02	3.23
85.0	0.33	1.04	1.97	2.19	1.97	1.00	0.56	3.57	6.28	6.99	5.99	3.08
90.0	0.11	0.93	1.89	2.12	1.89	0.93	0.30	3.46	6.21	6.92	5.87	2.93
95.0	0.00	0.30	1.15	1.78	1.26	0.60	0.11	2.97	4.31	6.32	3.75	2.00
100.0	0.00	0.19	0.89	1.60	1.30	0.48	0.00	2.26	4.65	5.69	4.05	1.33
105.0	0.00	0.07	0.60	1.41	1.19	0.45	0.00	2.00	4.35	4.80	3.16	0.60
110.0	0.00	0.00	0.41	1.19	1.07	0.41	0.00	1.60	3.79	3.60	1.97	0.19
115.0	0.04	0.00	0.22	0.93	1.00	0.41	0.00	1.22	3.20	2.34	1.11	0.11
120.0	0.04	0.00	0.11	0.71	0.89	0.45	0.00	0.97	2.56	1.48	0.52	0.07
125.0	0.07	0.00	0.04	0.52	0.78	0.45	0.00	0.78	2.00	0.89	0.15	0.04
130.0	0.07	0.00	0.00	0.41	0.71	0.45	0.00	0.63	1.60	0.45	0.07	0.00
135.0	0.11	0.00	0.00	0.30	0.63	0.45	0.00	0.52	1.22	0.15	0.04	0.00
140.0	0.11	0.00	0.00	0.22	0.52	0.41	0.00	0.41	0.97	0.07	0.00	0.00
145.0	0.11	0.00	0.00	0.15	0.48	0.41	0.00	0.30	0.74	0.04	0.00	0.00
150.0	0.15	0.00	0.00	0.11	0.41	0.37	0.00	0.19	0.60	0.04	0.00	0.00
155.0	0.15	0.00	0.00	0.07	0.37	0.37	0.00	0.04	0.45	0.00	0.00	0.00
160.0	0.15	0.00	0.00	0.04	0.33	0.33	0.00	0.00	0.22	0.00	0.00	0.00
165.0	0.19	0.00	0.00	0.04	0.26	0.33	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.19	0.04	0.00	0.00	0.22	0.30	0.00	0.04	0.00	0.00	0.00	0.00
175.0	0.15	0.07	0.00	0.00	0.19	0.22	0.04	0.11	0.00	0.00	0.00	0.07
180.0	0.11	0.11	0.00	0.00	0.11	0.15	0.11	0.15	0.00	0.00	0.04	0.26

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
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Test Set: 7.0deg/s C-Gamma (TYPE C)
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 Remarks: